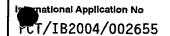
## INTERNATIONAL SEAROR REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61L9/12 F24F3/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC  $\frac{7}{600}$  A61L F24F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2001/023593 A1 (IMASAKA TOSHIYUKI ET AL) 27 September 2001 (2001-09-27) paragraphs '0005! - '0018!; figure 1	1-11
Α	WO 99/59832 A (HARA SHINICHI ; HAYASHI NAOTO (JP); ZEXEL CORP (JP)) 25 November 1999 (1999-11-25) abstract; figures 5,6	1-11
Α	US 2002/197186 A1 (MURRAY JOSEPH C) 26 December 2002 (2002-12-26) abstract; figures 1,12	1–11
A	US 2001/035095 A1 (CANFIELD DAVID) 1 November 2001 (2001-11-01) abstract; figure 1	1-11
	-/	

	A Last daming monitoring and indicating annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*&amp;* document member of the same patent family</li> </ul>
Date of the actual completion of the international search  9 November 2004	Date of mailing of the international search report  17/11/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Valenza, D

## INTERNATIONAL SEARCH REFURT

rectational Application No

0/6		PCT/IB2004/002655					
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT  Category Citation of document, with indication, where appropriate, of the relevant passages  Relevant to claim No.							
Calegory v	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.					
A	PATENT ABSTRACTS OF JAPAN vol. 0186, no. 69 (M-1725), 16 December 1994 (1994-12-16) & JP 6 262937 A (ZEXEL CORP), 20 September 1994 (1994-09-20) abstract	1-11					
A	abstract  PATENT ABSTRACTS OF JAPAN vol. 1999, no. 13, 30 November 1999 (1999-11-30) & JP 11 211126 A (SHARP CORP), 6 August 1999 (1999-08-06) abstract	1-11					

## IN I ENNA I IONAL SEARCH REPURI

Information on patent family members

PCT/IB2004/002655

Patent document clted in search report		Publication date		Patent family member(s)	Publication date
US 2001023593	A1	27-09-2001	JP	2001248852 A	14-09-2001
WO 9959832	A	25-11-1999	JP JP JP WO	11321297 A 11325652 A 11342729 A 9959832 A1	24-11-1999 26-11-1999 14-12-1999 25-11-1999
US 2002197186	A1	26-12-2002	US	2002197187 A1	26-12-2002
US 2001035095	A1	01-11-2001	AU WO	5317801 A 0176648 A1	23-10-2001 18-10-2001
JP 6262937	Α	20-09-1994	NONE		
JP 11211126	Α	06-08-1999	JP	3254416 B2	04-02-2002